

**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicants: Steve T. Cho

Serial No.: Application Filed Herewith

Filed: January 29, 2004

Title: MICRONEEDLES FOR  
MINIMALLY INVASIVE DRUG  
DELIVERY

Case No.: 6813USD1

Group Art No.: Not yet assigned

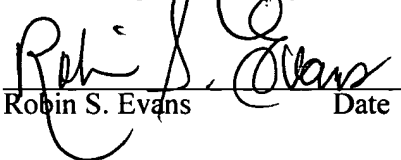
Examiner: Not yet assigned

EXPRESS MAIL LABEL NO:EV319420158  
US

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as Express Mail in an envelope addressed to:

Mail Stop Patent Application  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450, on:

Date of Deposit: January 29, 2004

  
Robin S. Evans Date 1/29/04

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(b), Applicants bring to the attention of the Examiner the documents listed on the attached PTO 1449. This Information Disclosure Statement is being filed before the mailing date of a first Office action on the merits. Applicants respectfully petition and request that the Examiner consider the listed documents and evidence such consideration by making appropriate notations on the attached form. Copies of the listed foreign and non-patent documents are attached.

This submission does not represent that a search has been made or that no better art exists, and does not constitute an admission that each or all of the listed documents are material or constitute "prior art". If it should be determined that any of the listed documents do not constitute "prior art" under United States law, Applicants reserve the right to present to the Office the relevant facts and law regarding the appropriate status of such documents.

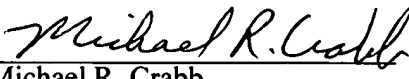
Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

The Commissioner is authorized to charge our Deposit Account any additional fees

(or credit any over payments) that may be required under 37 C.F.R. §§ 1.16 and 1.17 in association with this communication for which full payment has not been tendered.

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Respectfully submitted,  
Steve T. Cho

  
Michael R. Crabb  
Registration No. 37,298  
Attorney for Applicants

DATE: January 29, 2004

SHEET 1\_ of 2\_

## Form PTO - 1449 (Modified)

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE  
(Modified) PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

6813USD1

SERIAL NO.

Application Filed Herewith

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(Use several sheets if necessary)

(37 CFR 1.98 (b))

APPLICANT(S)

Steve T. Cho

FILING DATE

January 29, 2004

GROUP

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	INVENTOR	CLASS	SUB CLASS	FILING DATE
	A1	3,633,580	09/1969	Knox			
	A2	3,645,268	02/1972	Capote			
	A3	5,250,067	10/1993	Gelfer et al			
	A4	5,279,544	01/1994	Gross et al			
	A5	5,457,041	10/1995	Ginaven et al			
	A6	5,486,547	01/1996	Matsuda et al			
	A7	5,591,139	01/1997	Lin et al			
	A8	5,634,913	06/1997	Stinger			
	A9	5,899,915	05/1999	Saadat			
	A10	5,911,363	06/1999	Oligschlaeger			
	A11	5,968,022	10/1999	Saito			

## FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

		DOCUMENT NUMBER	PUBLIC- ATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUB CLASS	TRANS- LATION	
							YES	NO
	B1	01/33614	05/10/2001	WO				
	B2	99/64580	12/16/1999	WO				
	B3	00/35530	06/22/2000	WO				

## OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

	C1	K. Najafi, K. D. Wise and T. Mochizuki, "a High-Yield IC-Compatible Multichannel Recording Array," IEEE Micro. Trans. On Electron Devices, vol. ED-32, pp. 1206-1211, July 1985.

EXAMINER

DATE CONSIDERED

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and  
not considered. Include copy of this form with next communication to applicant.

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DATE: January 29, 2004

SHEET 2 of 2

## Form PTO - 1449 (Modified)

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STATEMENT BY APPLICANT

(Use several sheets if necessary)

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APPLICANT(S)

Steve T. Cho

FILING DATE

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GROUP

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	INVENTOR	CLASS	SUB CLASS	FILING DATE
	A12	6,033,928	03/2000	Eriguchi et al			11/25/1992
	A13	6,217,554	04/2001	Green			
	A14	6,312,612	11/2001	Sherman et al			
	A15	6,334,856	01/2002	Allen et al			
	A16	6,379,324	04/2002	Gerstein et al			
	A17	6,629,949	10/2003	Douglas			
	A18	Patent Application 2002/0082543	06/2002	Park et al			

## FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

		DOCUMENT NUMBER	PUBLIC- ATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUB CLASS	TRANS- LATION	
							YES	NO

## OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)


EXAMINER

DATE CONSIDERED

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